

Abstract

A gas mask for use with associated monitoring and controlling apparatus is provided. A device for monitoring of patients with sleep disorders, breathing disorders or for anesthesia is provided. Different types of sensors on or in the mask and straps or caps connected to the mask include but are not limited to oximetry sensors, patient position sensors, eye movement sensors, leak detection sensors, EEG, EMG, EOG, ECG, PTT, microphones, pulse, blood pressure, oxygen saturation, temperature, movement sensors, position sensors, light sensors, leak detection sensors and gas delivery sensors. Another application provides for gas delivery to a bio-mask controlled, in part, via communication from a pacemaker to a bio-mask controller.